Maastricht University

Multi-modality imaging for treatment response evaluation in rectal cancer

Citation for published version (APA):

Janssen, M. H. (2011). *Multi-modality imaging for treatment response evaluation in rectal cancer*. [Doctoral Thesis, Maastricht University]. Datawyse / Universitaire Pers Maastricht. https://doi.org/10.26481/dis.20110914mj

Document status and date:
Published: 01/01/2011

DOI:
10.26481/dis.20110914mj

Document Version:
Publisher's PDF, also known as Version of record

Please check the document version of this publication:

• A submitted manuscript is the version of the article upon submission and before peer-review. There can be important differences between the submitted version and the official published version of record. People interested in the research are advised to contact the author for the final version of the publication, or visit the DOI to the publisher's website.
• The final author version and the galley proof are versions of the publication after peer review.
• The final published version features the final layout of the paper including the volume, issue and page numbers.

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Stellingen behorend bij het proefschrift

"Multi-modality imaging for treatment response evaluation in rectal cancer"

Marco Janssen, 14-09-2011

1. Peritumoral inflammatory responses can result in an underestimation of the metabolic treatment response of the tumor when assessed with FDG-PET-imaging. *(dit proefschrift)*

2. The percent reduction of the maximal FDG uptake in rectal tumors after two weeks of pre-operative treatment with chemo-radiotherapy is an accurate predictor of the pathological treatment response. *(dit proefschrift)*

3. Blood glucose level normalization of sequential FDG-PET-data significantly increases the accuracy of PET-based predictions of the pathological treatment response. *(dit proefschrift)*

4. FDG-PET based automatic tumor contouring using SUV-iso-thresholding accurately delineates the pathological tumor volume. *(dit proefschrift)*

5. Both visual interpretation and quantification of FDG-PET images of tumors with a relatively small volume are influenced by the partial volume effect of the PET-scanner.

6. Standardization of PET imaging is essential in order to untangle the complicated relationship between measured tumor FDG uptake and tumor physiology. *(Soret, J Nucl Med, 2007)*

7. Most studies perform PET-acquisition after an FDG uptake period of 45 to 60 minutes, whereas FDG uptake increases without saturation up to 120 minutes after injection for most malignancies.

8. One size does not fit all for the treatment of rectal cancer.

9. 100% of the shots you don't take, don't go in.

10. Je kunt niet falen, tenzij je opgeeft.